19990218.ba v02_n433.bam.990218

>From ???@??? Thu Feb 18 20:00:08 1999
Message-Id: <199902182358.RAA18741@sco.theporch.com>
Date: Thu, 18 Feb 1999 17:57:40 CST
From: Old Tube Radios <boatanchors@theporch.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: BOATANCHORS digest 2433

BOATANCHORS Digest 2433

Topics covered in this issue include:

1) LI'L LULU Findings
by "Richard W. Solomon" <w1ksz@tiac.net>
2) Valiant Jewel Color Answers
by "Freeberg, Scott (STP)" <scott.freeberg@guidant.com>
3) Re: Century 21
by Bob Roehrig <broehrig@admin.aurora.edu>
4) Re: WW2 Hallicrafters Spy Transceiver?
by luc dugas <collins2@globetrotter.net>
5) For Sale: EF Johnson Pacemaker
by AA5QT@aol.com
6) Re: 183D
by Jderm740@aol.com
7) Re: NC-183D schematic help
by Jim Roik <jnroik@escape.ca>
8) CE-100V transmitter
by "JOSE V. GAVILA (EB5AGV/EC5AAU)" <eb5agv@ctv.es>
9) Wavetek 3000
by Jim Garland W8ZR <4CX250B@miavx1.acs.muohio.edu>
10) FS: Valiant, NC-303
by "Carl Yaffey" <cyaffey@columbus.rr.com>
11) RE: NC-183D schematic help
by "Owens, Clarence" <owensc@nebeng.otis.com>
12) WTD: Parts for SX-28A and SX-28
by w2ec@VNET.IBM.COM
13) FS: National NC-100ASD Receiver
by w2ec@VNET.IBM.COM
14) Why QRR? (A trivia question)
by "Roberta J. Barmore" <rbarmore@indy.net>
15) Re: Why QRR? (A trivia question)
by Bob Roehrig <broehrig@admin.aurora.edu>
16) Help w/Central Electronics 20A/458 vfo
by W4FMS@aol.com
17) Re: Why QRR? (A trivia question)
by Bill Hawkins <bill@iaxs.net>
18) Marconi VT transmitter

by Bill Hawkins <bill@iaxs.net>
19) NC-183D schematic help
by "Doug Gordon" <dmgordon@pacbell.net>
20) SX42 help
by David and Shari Abell <dabell@aloha.net>
21) BC-611 mic and speaker covers
by BEN NOCK <G4BXD@compuserve.com>
22) Re: SX42 help
by "A. B. Bonds" <ab@vuse.vanderbilt.edu>
23) Re: Help w/Central Electronics 20A/458 vfo
by Sandy W5TVW <ebjr@worldnet.att.net>
24) BA clock help
by thompson@mindspring.com
25) DOES IT REALLY WORK ON 6M?
by JOHN_SEHRING.parti@ecunet.org (JOHN SEHRING)

Message-ID: <01BE5A9C.B81478E0.w1ksz@tiac.net>
From: "Richard W. Solomon" <w1ksz@tiac.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: LI'L LULU Findings
Date: Wed, 17 Feb 1999 17:41:07 -0500

In looking at the manual, it calls out the Final as a 12DQ7, as does the QST review. BUT, the picture in the review, as well as my rig, have a 12BY7. They look interchangeable, but I wonder if QST actually had the rig to review ? Next step is to fire it up, slowly.

73, Dick, W1KSZ

Message-ID: <21B46CBD022AD1118F0500805F15A068011066E9@STPMSX05.stp.guidant.com>
From: "Freeberg, Scott (STP)" <scott.freeberg@guidant.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Valiant Jewel Color Answers
Date: Wed, 17 Feb 1999 17:01:29 -0600
MIME-Version: 1.0
Content-Type: text/plain

Hi,

Here is a summary of the responses to my Johnson Viking Valiant 1 Jewel Colors post:

1. Two folks replied with certainty that the factory standard configuration is an unwired red/wired red lens and only the right lens has a bulb behind it which lites when the plate supply is on.

2. 10 folks have the factory standard unwired red/wired red configuration.

3. 3 folks have a wired green/wired red configuration, and two others believe the wired green/wired red is the standard configuration.

So there you have the results. It sounds like unwired red/wired red was the standard factory configuration, though there are certainly some variations out there with the wired green/wired red combination.

Thanks for the input. It is fun.

Scott WA9WFA in Saint Paul Minn

Date: Wed, 17 Feb 1999 17:30:16 -0600 (CST)
From: Bob Roehrig <broehrig@admin.aurora.edu>
To: Old Tube Radios <boatanchors@theporch.com>
cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Century 21
Message-ID: <Pine.ULT.3.96.990217172935.9605A-100000@admin.aurora.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Wed, 17 Feb 1999 Jderm740@aol.com wrote:

> Hello to all with quick eyes and good memories
>
> There is a new Century 21 ad concerning the sale of the "Boyd's House". The
> question: What is the BA in the last scene?

I saw that too. Unfortunately, it's not on-screen very long. Kinda looks like one of the old Nationals.

"Nostalgia is a thing of the past"
E-mail broehrig@admin.aurora.edu 73 de Bob, K9EUI
CIS: Data / Telecom Aurora University, Aurora, IL
630-844-4898 Fax 630-844-5530

Message-ID: <36CB4A7E.68F387A@globetrotter.net>
Date: Wed, 17 Feb 1999 19:02:22 -0400
From: luc dugas <collins2@globetrotter.net>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
CC: Old Tube Radios <boatanchors@theporch.com>,
"'dgagnon@concentric.net'" <dgagnon@concentric.net>
Subject: Re: WW2 Hallicrafters Spy Transceiver?
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

hi chris i.m just back from orlando hamfest and have not much time to answer you. i have a WWII vintage ht-11b. it is a receiver and a transmitter in the same box with a telephone handset hanging on the left side of the cabinet. if i remember well the range was from 2 to 4 mhz..   luc ve2lgj 73s

Christopher A. Bowne wrote:

> I have been reading a very interesting account of intellegence and deception operations in WW2 titled "Bodygaurd of Lies" by Anthony Cave Brown, Harper and Row, 1975. Just finished a chapter which dealt with the North African campaigns of 1942-43, which discussed how a Hallicrafters transceiver was used to feed disinformation back to the Germans, and ultimately contributed to the defeat of Rommel's Afrika Corps at El Alamein. Two German agents were discovered in Cairo operating from a houseboat in the Nile river. The radio they used for communicating with Rommel and a control staion in Athens was described as an American Hallicrafters transceiver. In a raid on the houseboat, it was dumped into the river by one of the agents and was ruined, but the frequency used by the Germans was determined. Copies of thier messages and ciphers were also recovered. A second Hallicrafters transceiver brought to Cairo by the pair was discovered and subsequently used by the British to feed false reports back to the German's control station in Athens, which was unaware of the pair's capture.
>
> Of course the question for this list is ...what Hallicrafters TRANSCEIVER, presumeably commercially available in the early 40s, would have been used in such a clandestine operation? One of the marine transmitter/receivers, such as later became the Signal Corps BC-669? That would have been kind of big to be discreet. The communications by the agents clearly were conducted with CW.
>
> The S-38 lookalike SR-75 hadn't been marketed yet..was there something similar to it in the early 40s?
>
> 73,
>
> Chris Bowne, AJ1G
> Stonington, CT
> radiobwn@riconnect.com
> AMI No. 211

From: AA5QT@aol.com
Message-ID: <1a9cbb8c.36cb6716@aol.com>
Date: Wed, 17 Feb 1999 20:04:22 EST

To: Old Tube Radios <boatanchors@theporch.com>
Cc: johnson@qth.net
Mime-Version: 1.0
Subject: For Sale: EF Johnson Pacemaker
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

Good condition - cabinet excellent, front has some scratches near the top. Looks like it was modded at one time (extra 6146), but that's been removed/restored. I ran it into a dummy load last night and it behaved fine. With manual. Local pickup (near Houston). I have a parts unit I'll throw in. $150.

73,
Gary Youney   K5QT

From: Jderm740@aol.com
Message-ID: <fad5d2f9.36cb6f49@aol.com>
Date: Wed, 17 Feb 1999 20:39:21 EST
To: Old Tube Radios <boatanchors@theporch.com>
Cc: dmgordon@pacbell.net
Mime-Version: 1.0
Subject: Re: 183D
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

Doug

Are you sure you have a D model. What you describe looks alot like the plain 183 schematic I have before me. What is the tube line-up?

Jack   Jderm740@aol.com

Message-Id: <3.0.1.32.19990217214128.006c0550@mail.escape.ca>
Date: Wed, 17 Feb 1999 21:41:28 -0600
To: Old Tube Radios <boatanchors@theporch.com>
From: Jim Roik <jnroik@escape.ca>
Subject: Re: NC-183D schematic help
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Doug, interestingly enough my manual copy has both schematics, both labelled Figure 13 (is there a hidden meaning?) but one as page 23 and one as page 24. The rest of the manual shows the 6SN7. The s-meter went in the wiper of the RF gain control (10k pot) to pin D of T9. The s - meter adjustment is a 2K pot from pin d of T9 to S-1B. It's easier to make a copy of a schmatic. Do you still need one?

Jim VE4AQ

At 11:13 AM 2/17/99 -0800, you wrote: Can
>anyone provide a schematic for my radio/or at least a partial schematic for
>and resistor values used in the cheapie S-meter circuit (including
>connections to switch wafer S-1B).
>
>Doug K6AKK
>Carlsbad, CA 92008
>
>

Message-Id: <3.0.1.32.19990218131650.006d7de8@192.168.0.1>
Date: Thu, 18 Feb 1999 13:16:50 +0100
To: Old Tube Radios <boatanchors@theporch.com>
From: "JOSE V. GAVILA (EB5AGV/EC5AAU)" <eb5agv@ctv.es>
Subject: CE-100V transmitter
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hello!

After some customs troubles :-(I am the proud owner of a Central
Electronics CE-100V transmitter :-) (thanks, Sindre!)

My CE-100V serial number is E-341. I have been doing some searching in the
old News messages (by DejaNews) and also in Altavista, Yahoo, ... but I
couldn't find too much information about this model. I wonder if there is
data about how many of them were made and the meaning of serial numbers (as
a sample, what does 'E' mean?).

This CE-100V is in very good condition, just needing of some internal
cleaning (40 years is lots of time!). It worked before it was shipped so I
hope it will work when I have the chance to check it. Unfortunately, I have
it in a temporary storage location (here at work in the Radio Museum; at
least it is close :-)), as I am working in my new house which will have a
large enough radio shack to put it in. So I won't be able to put it on the
air in some months...

As a curiosity, my unit came with TWO original manuals, both same date
(1959), but only one had the big schematic.

I plan to match it with one of my 19" receivers: R-390A, R-388, SP-600,
RA-117, ... What do you think of this wedding?. I would love also to hear
from CE-100V users; how does it compare to, let's say, a Collins 32S-1/3 or

a Drake T-4XB/C?. I think that 26 tubes should make a nice transmitter ;-) !

Thanks for your help and best regards.

JOSE
----
  73 EB5AGV / EC5AAU
     JOSE V. GAVILA
     Ausias March 46, 15
     46910 Benetusser - VALENCIA
     SPAIN

** VISIT MY VINTAGE RADIO SITE - updated 17-January-1999 ***
  http://www.geocities.com/SiliconValley/6992/
  e-mail: eb5agv@ctv.es & eb5agv@amsat.org

Message-Id: <v03102804b2f1a9d3711a@[134.53.65.12]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Thu, 18 Feb 1999 07:32:27 -0400
To: Old Tube Radios <boatanchors@theporch.com>
From: Jim Garland W8ZR <4CX250B@miavx1.acs.muohio.edu>
Subject: Wavetek 3000
Cc: boatanchors@theporch.com

I agree completely about your comment about Wavetek 3000 (signal generator) unreliability. I've had mine apart a dozen times, and every time I get the darn thing aligned and locking, a few hours later it malfunctions. It's a bear to diagnose faults, what with all the PLL circuits. At the moment, mine has an intermittent problem I can't find. It works for awhile and then unlocks. I've spent hours of frustration trying to fix it, and am thinking about selling off the modules as parts. Too bad, since when it works its a great generator.

73,

Jim W8ZR

Message-ID: <01df01be5b45$9fd41520$d1d8a9d0@300.columbus.rr.com>
From: "Carl Yaffey" <cyaffey@columbus.rr.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: FS: Valiant, NC-303
Date: Thu, 18 Feb 1999 08:50:16 -0500
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Viking Valiant I.
Front panel: 8 out of 10
Cabinet: 7 out of 10
Chassis: Could use some cleanup.
Electrical: Power xfmr and relay replaced by a former owner with heavy-duty ones.
CW: Works perfectly with full output.
AM: Audio somewhat distorted.
Price:$200
Pickup in Columbus, OH or vicinity.
****
National NC-303 w/o speaker
Front panel: 9 out of 10
Cabinet: 8 out of 10
Chassis: Could use some cleanup.
Electrical: Works great.
Price:$200
Pickup in Columbus, OH or vicinity.
****
Carl Yaffey, K8NU
614 268 6353
cyaffey@columbus.rr.com

Content-return: allowed
Date: Thu, 18 Feb 1999 08:43:00 -0500
From: "Owens, Clarence" <owensc@nebeng.otis.com>
Subject: RE: NC-183D schematic help
To: Old Tube Radios <boatanchors@theporch.com>
Message-id: <0F7C00JDWRXKL1@mailman.otis.com>
MIME-version: 1.0
Content-type: text/plain

Hi All,

I already sent Doug a reply yesterday offering him a manual copy, but since there seems to be some confusion about this early variant of the NC-183D I wanted to post this expanded comment:

I have a very early '183D and it has the 6J5 phase inverter. I know that it is a dual conversion receiver. I surmise that mine was an early production unit because the "D" in the name in the upper right corner of the front panel was hand stamped onto an NC-183 case. Also because I know the history of this unit. It was donated by National to the Canisius High School (Buffalo, NY) radio club in 1955 or 1956 while I was a radio club member. The President of the club had sent letters to several equipment companies and we received equipment from Hallicrafters, Harvey Wells and National. Only the Hallicrafters receiver was new. The H-W TBS-50's (Two of them) had been in a flood. The NC-183D was used but in excellent condition, with a speaker. There was a small Civil Defense decal on the top cover of the '183D.

I hadn't seen this receiver for 30 years but it and its speaker were given to me by the man in charge of the physical plant at Canisius in 1988 or so when they had to clean out the school attic due to an asbestos removal project. The decal has been removed by scraping it off, right through the paint (Ugh!!!) but the scrapes are in the right place. Also the hand stamped "D" is quite distinctive.

I imagine this was one of the very early ones and either was sold or loaned to CD and ended up used and "surplus" to National's needs. Lucky us and now lucky me.

73, Clare Owens N2RJB

From: Doug Gordon
To: Old Tube Radios
Subject: NC-183D schematic help
Date: Wednesday, February 17, 1999 2:13PM

Diamond Gents & Ladies,

My 183D is from a production run with a different circuit than the schematic in the manual I just purchased. My unit has a 6J5 ph. inv. with no S-meter amp. My manual shows a 6SN7 using one section as a phase inverter with the second section being used as the S-meter amp. (similar to the HRO-50) Can anyone provide a schematic for my radio/or at least a partial schematic for and resistor values used in the cheapie S-meter circuit (including connections to switch wafer S-1B). Was this an early version or later version of the 183D? Thanks in advance for any help.

73,

Doug K6AKK
Carlsbad, CA 92008

From: w2ec@VNET.IBM.COM
Message-Id: <199902181441.IAA15670@sco.theporch.com>
Date: Thu, 18 Feb 99 09:40:21 EST
To: Old Tube Radios <boatanchors@theporch.com>
Subject: WTD: Parts for SX-28A and SX-28

For the SX-28 I need the top cover plate for the RF deck. This is the metal plate covering the RF Section with the tuning caps and is held in place by screws.

I'm in the process of restoring an SX-28A and am looking for the following parts:

Top cover plate for the RF deck (covers the RF section containing the tuning caps, and is held on by swivel clamps, not screws like in the SX-28.)

Set of antenna terminals (bakelite mount and two thumbscrew terminals) from the back of the chassis. Preferably marked A1 and A2 if possible but can use unmarked as well.

Two sets of Speaker terminals (Bakelite mount and two thumbscrew terminals) from the back of the chassis, preferably one marked 5000 and the other marked 500 but will be able to use unmarked ones as well.

Main dial and Bandspread dial with clear frequency markings, the ones I have are faded.

S-meter with decent meter face, doesn't need to work, I only need the meter face as my meter works but face is faded.

73, Ray W2EC

From: w2ec@VNET.IBM.COM
Message-Id: <199902181453.IAA15776@sco.theporch.com>
Date: Thu, 18 Feb 99 09:42:22 EST
To: Old Tube Radios <boatanchors@theporch.com>
Subject: FS: National NC-100ASD Receiver

National NC-100ASD receiver, 200kc-400kc, 1.3mc-30mc. Catacomb bandswitching. Nice looking black wrinkle paint front panel, dial eustacheons look good but up close you can see they are worn. Radio plays very well, includes an excellent condition original manual, not a copy. Half-moon dial with indicator that moves up and down the frequency display as bands are changed.

$150 plus shipping from 13732 NY, this is a HEAVY radio for its size!

73, Ray W2EC

Date: Thu, 18 Feb 1999 10:22:19 -0500 (EST)
From: "Roberta J. Barmore" <rbarmore@indy.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Why QRR? (A trivia question)
Message-ID: <Pine.SUN.3.96.990218101722.27851A-100000@indy2>

MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi, gang!

It had never dawned on me 'til a little drawing in an old QST made it clear: why was "QRR" adopted by ARRL as the "land SOS," and why did use of it fade away in the decades following WW II?
...Here's a hint--what was the one *essential* life & safety need that amateur radio could uniquely fulfill after lines had been downed?

73,
--Bobbi

KB9GKX "RJ" rbarmore@indy.net   Roberta J. (Bobbi) Barmore
FISTS #3388 * G-QRP #10001 * ARRL * RSGB * WIA
Appreciator Of Vacuum-Tube Ham Gear and Vintage Keys

Date: Thu, 18 Feb 1999 09:44:02 -0600 (CST)
From: Bob Roehrig <broehrig@admin.aurora.edu>
To: Old Tube Radios <boatanchors@theporch.com>
cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Why QRR? (A trivia question)
Message-ID: <Pine.ULT.3.96.990218094337.26266B-100000@admin.aurora.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Thu, 18 Feb 1999, Roberta J. Barmore wrote:

> It had never dawned on me 'til a little drawing in an old QST made it
> clear: why was "QRR" adopted by ARRL as the "land SOS," and why did use of
> it fade away in the decades following WW II?
> ...Here's a hint--what was the one *essential* life & safety need that
> amateur radio could uniquely fulfill after lines had been downed?

Sumpin to do with railroads?

"Nostalgia is a thing of the past"
E-mail broehrig@admin.aurora.edu   73 de Bob, K9EUI
CIS: Data / Telecom   Aurora University, Aurora, IL
630-844-4898 Fax 630-844-5530

From: W4FMS@aol.com
Message-ID: <48537764.36cc40c2@aol.com>
Date: Thu, 18 Feb 1999 11:33:06 EST

To: Old Tube Radios <boatanchors@theporch.com>
Mime-Version: 1.0
Subject: Help w/Central Electronics 20A/458 vfo
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

Hello BA'ers

I'm working on a CE20A and I'm wondering if anyone might be able to tell the the purpose of the QT-1 plug in module in the transmitter. It's most likely works as some type of vox plug-in but I have no documentation on the QT-1. What tube does it use? It's not at all documented in my 20A manual.

Also, I'm having some trouble with power output on the transmitter. Should I have a solid 20 watts output on all bands with the 6AG7's? I suspect I might might have a problem with the BC458 vfo as well since I've only got about 3 to 4 volts peak-to-peak on the output signal. The 20A schematic indicates 8v p-p max. I do notice a volt or two makes a big difference in output power. There are alot of postage stamp micas in there so I'm sure that's a contributing factor. It's just a matter of starting to narrow it down.

Any input appreciated.

Frank, W4FMS
w4fms@aol.com

Date: Thu, 18 Feb 1999 12:12:40 -0600 (CST)
From: Bill Hawkins <bill@iaxs.net>
Message-Id: <199902181812.MAA21463@citrus.iaxs.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Why QRR? (A trivia question)

>> ...Here's a hint--what was the one *essential* life & safety need that
>> amateur radio could uniquely fulfill after lines had been downed?
>
>Sumpin to do with railroads?

Nah, she said "essential." After all the stress of lines being down, it must be "rest and recreation."

:-)
Bill Hawkins

Date: Thu, 18 Feb 1999 12:26:29 -0600 (CST)
From: Bill Hawkins <bill@iaxs.net>
Message-Id: <199902181826.MAA21503@citrus.iaxs.net>

To: Old Tube Radios <boatanchors@theporch.com>
Subject: Marconi VT transmitter

Had one hour free while in London on business, so I went to the Science Museum and took some digital pix of the Marconi transmitter there. It occupies about a six foot cube, has two tubes, a voltmeter 15 KV full scale and an ammeter 2.5 ADC in each plate circuit. Will be glad to send pix to anyone interested. Let me know your level of interest, because each jpg photo is about 180 KB. Also have a nice front panel shot of an R-107 that the owner bought shortly after the War.

London has a public statue of Michael Faraday, and has his portrait on the back of the 1993 20 pound sterling note. It struck me that the reason we call microfarads 'mikes' is the diminuative of Michael, kind of a nickname for capacity. Or maybe not...

Kind regards,
Bill Hawkins

Message-ID: <001601be5b6e$157d0e80$a98dd7cf@default>
From: "Doug Gordon" <dmgordon@pacbell.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: NC-183D schematic help
Date: Thu, 18 Feb 1999 10:39:24 -0800
MIME-Version: 1.0
Content-Type: text/plain;
    charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Thank you Diamondites,

Wow, I was overwhelmed with the outpouring of support on this one. Thank you one and all. Consensus is:
The radio with the 6J5 phase inverter is an early production run while the 6SN7 change was added to later models. The NC-183 (no D) apparently had a similar s-meter circuit configuration. Many folks offered to send manuals and/or schematics. My biggest concern was for resistor values since the color bands on a number of resistors in the set are faded to a point that I cannot read them. Thanks again.

73,

Doug K6AKK

Message-Id: <Version.32.19990218080709.00f36ba0@aloha.net>
Date: Thu, 18 Feb 1999 08:10:59 -1000

To: Old Tube Radios <boatanchors@theporch.com>
From: David and Shari Abell <dabell@aloha.net>
Subject: SX42 help
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Fellow enthusiasts,

My SX42 keeps frying R134, a 1K ,1st IF decoupling resistor. I recapped and changed many resistors that went high. Still, when I power up, this resistor smokes. I have tried higher wattage resistors to no avail. Can't figure where all this current is coming from.

Your wisdom is greatly appreciated.

Dave, WH6OL

Date: Thu, 18 Feb 1999 14:35:59 -0500
From: BEN NOCK <G4BXD@compuserve.com>
Subject: BC-611 mic and speaker covers
To: Old Tube Radios <boatanchors@theporch.com>
Message-ID: <199902181436_MC2-6AF6-7293@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: quoted-printable
Content-Type: text/plain; charset=ISO-8859-1

Content-Type: text/plain; charset=ISO-8859-1

Message-Id: <3.0.1.32.19990218135359.00cf4d40@vuse.vanderbilt.edu>
Date: Thu, 18 Feb 1999 13:53:59 -0600
To: Old Tube Radios <boatanchors@theporch.com>
From: "A. B. Bonds" <ab@vuse.vanderbilt.edu>
Subject: Re: SX42 help
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 08:10 AM 2/18/99 -1000, you wrote:
>Fellow enthusiasts,
>
>My SX42 keeps frying R134, a 1K ,1st IF decoupling resistor. I recapped and
>changed many resistors that went high. Still, when I power up, this
>resistor smokes. I have tried higher wattage resistors to no avail. Can't
>figure where all this current is coming from.
>

Welcome to the wonderful world of the SX-42. A great radio, but a colossal pain.

Your nomenclature for this resistor is from the Sam's Photofact. Obviously, the decoupling cap (45) is suspect. Check carefully the voltages on the 6SK7, as well as the integrity of resistors 132 and 133 and caps 46 and 47. Measure the voltage drop across 134 to get an idea of how much current the circuit is drawing. Now remove the 6SK7 and check again. If you are getting any voltage at all across 134, then some passive component is guilty and you must play the elimination game. If not, then either the tube is running in the wrong region due to a biasing/screen voltage problem (see tube voltage check above) or the tube itself may have a short.

General comments on SX42's (I have restored three of 'em):
You must replace EVERY wax cap in the radio. No exceptions. And some are hidden below lots of stuff, especially in the RF deck.

The greater and more subtle problem with HV leakage is the switches. The bandswitch and other wafer switches are made out of cheesy phenolic that, when heated (due to leaky bypass caps, for example) carbonizes, providing a DC path that causes more heating until you get combustion. You also get deposits of ground-off conductive dust on the wafers.

The first thing I do with a 42 is to spend a couple of hours with a solvent and small brushes and Q-tips cleaning crud off the switches. You should use magnification here. Then, I measure the voltages on all tubes attached to them. When there is something screwy, it can often be traced to a carbon path on a wafer. The carbon paths can be removed by gentle scraping with a sharp object. I use dental picks. In one case I had to remove so much material that I ended up having to fill that area of the switch with epoxy.

Note also that the toggle switches on the front panel are often bad, especially the limiter switch. (This switch is ON to switch limiting OFF.) This can usually be cured by removing the switches (sorry, the front panel has to come off) and spraying De-Oxit into the very small holes in the switch body near the terminals and working the switch.

Good luck!   A. B. Bonds

Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: Old Tube Radios <boatanchors@theporch.com>
From: Sandy W5TVW <ebjr@worldnet.att.net>
Subject: Re: Help w/Central Electronics 20A/458 vfo
Message-Id: <19990218214514.DUL15041@LOCALNAME>
Date: Thu, 18 Feb 1999 21:45:14 +0000

At 11:33 AM 2/18/99 EST, you wrote:
>Hello BA'ers
>
>I'm working on a CE20A and I'm wondering if anyone might be able to tell the
>the purpose of the QT-1 plug in module in the transmitter. It's most likely
>works as some type of vox plug-in but I have no documentation on the QT-1.
>What tube does it use? It's not at all documented in my 20A manual.
>
>Also, I'm having some trouble with power output on the transmitter. Should I
>have a solid 20 watts output on all bands with the 6AG7's? I suspect I might
>might have a problem with the BC458 vfo as well since I've only got about 3 to
>4 volts peak-to-peak on the output signal. The 20A schematic indicates 8v p-p
>max. I do notice a volt or two makes a big difference in output power. There
>are alot of postage stamp micas in there so I'm sure that's a contributing
>factor. It's just a matter of starting to narrow it down.
>
>Any input appreciated.
>
>Frank, W4FMS
>w4fms@aol.com
>
>	The "QT-1" is the "anti-trip" module. This allows receiver audio to be fed into the 20A's audio system. When the exciter is used in VOX or voice control mode with a receiver using a loudspeaker, the loudspeaker signals will trip the VOX circuit of the transmitter if loud enough. The small pot on the QT-1 is adjusted to stop this unwanted tripping. This is its only purpose.

The 20A is rated at 20 watts PEP output. You may not get anywhere near this on a standard wattmeter in SSB operation. I had one of these years ago but I don't remember how many CW watts it delivered. I'd guess it should give you at least 10 watts of "carrier" power into a 50 ohm dummy load.

73,
Sandy W5TVW

From: thompson@mindspring.com
Message-ID: <000401be5b93$5eb08760$280745cf@default>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: BA clock help
Date: Thu, 18 Feb 1999 18:06:50 -0500

I have a TYMETER Numechron clock that I have for my BA station of the HQ170A and Elmac AF-67.   It stopped working today and it seems the main shaft was sticking. In a few minutes it stuck again.   I pushed the re-set button on the small motor and now its dead. The motor gets hot but no turning.

Does anyone have any ideas or perhaps a working model to sell.?

Send me a direct e-mail so jack won't get upset and we won't clutter up BA.

Dave K4JRB
thompson@mindspring.com

MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit
Date: Thu, 18 Feb 1999 18:53:19 -0500 (EST)
Subject: DOES IT REALLY WORK ON 6M?
To: Old Tube Radios <boatanchors@theporch.com>
From: JOHN_SEHRING.parti@ecunet.org (JOHN SEHRING)
Message-ID: <9902181853.aa23315@pcusa01.ecunet.org>

To: boatanchors@theporch.com

On 6 meters, background noise (galactic) is such that high sensitivity is not required and may in fact introduce other detriments, e.g. too easily cross modulated, etc. Tilton covered this quite well in early 50s QST columns.

Basically, if the convertor has at least about 3 dB less self-noise (when connected to a dummy load of its design Z) than the galactic noise coming from the antenna, then its noise will *not* be the limiting factor in rx sensitivity.

-John Sehring (Thu, Feb 18, 1999 @ Custer SD USA) UCC WB2EQG
"Live long and prosper" --John 10:10b

End of BOATANCHORS Digest 2433
****